COMTRADE

Utility for PI

OVERVIEW

The SISCO COMTRADE Utility for the OSIsoft PI System™ allows digital data records from COMTRADE or PQDIF file to be historized into the PI Server™ enabling the PI System™ to be used as a complete disturbance archive for both the data and the files.

The COMTRADE Utility can automatically transfer disturbance files from devices via IEC 61850 or FTP, extract the data from the COMTRADE file, historize the information as an individual PI point for each channel of data and, optionally, store the entire COMTRADE file to a PI Event Frame™ so that the original data can be reproduced for audit trail purposes.

Once the COMTRADE data has been historized, the information becomes available to any of the powerful data presentation and analysis functions

available in the OSIsoft PI System™. This enables the detailed event data from the COMTRADE file to be analyzed without being constrained by the COMTRADE file format.

BENEFITS

- **Enables detailed power system event data from COMTRADE files to be easily historized in the PI Server™ for analysis and long term archiving**
- **All data is stored in the standard PI Server™ format allowing users to analyze and report on power system events with the powerful and flexible tools offered by OSIsoft**
- **Detailed audit trail information is provided, including when the data was generated, retrieved, and archived; to help meet regulatory requirements and to more effectively perform forensic analysis on past events**

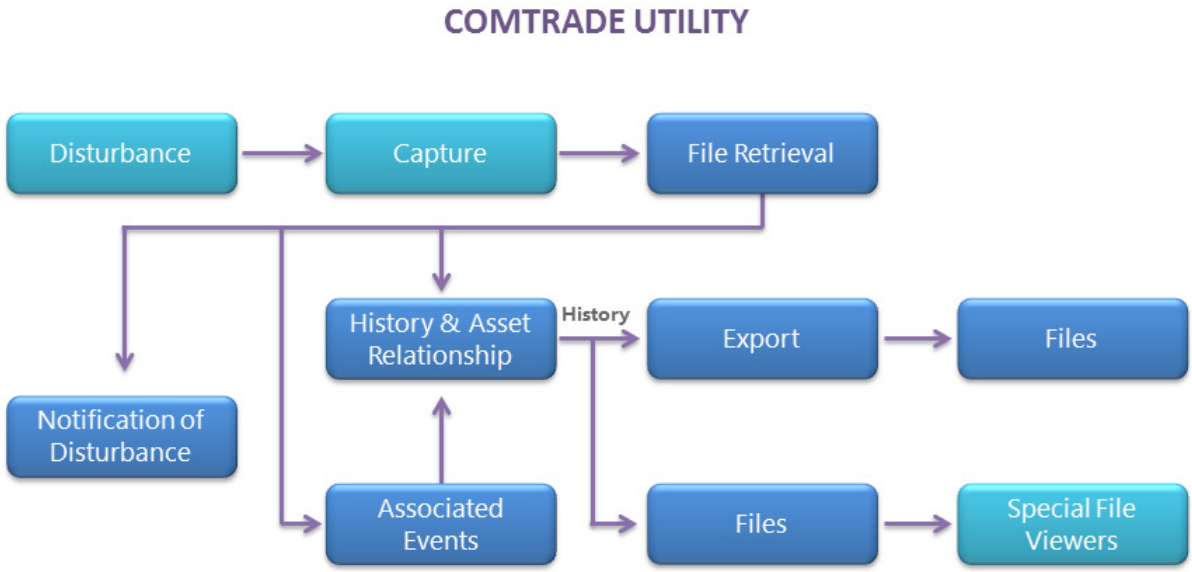
WWW.SISCONET.COM

6605 19 1/2 Mile Road
Sterling Heights, MI 48314

P +1 (566) 254-0020
F +1 (586) 254-0053

FEATURES

- Import data from disturbance files based on the COMTRADE and PQDIF formats into the PI Server™ based on interactive, scheduled or programmatic invocation
- Support for both FTP and IEC 61850 (using AX-S4 61850 available separately) file transfer to retrieve files from devices
- Ability to store and retrieve the raw disturbance files used during processing via PI Event Frames™
- Ability to automatically create PI Tags for data found in the disturbance files as an option
- Support for all the existing COMTRADE and PQDIF file formats including support for the upcoming revision to the C37.111 standard being developed by IEEE
- Example provided to use PI Notifications™ to trigger COMTRADE file retrieval and processing
- Support for exporting data from the PI archive into a COMTRADE file for any PI data, even if it was not imported into PI via a COMTRADE import



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